

M 5.7, 105 km SSE of Vilyuchinsk, Russia

Origin Time: 2023-12-23 17:48:06 UTC (Sun 04:48:06 local)
Location: 52.0472° N 158.9730° E Depth: 53.2 km

PAGER
Version 3

Created: 1 day, 0 hours after earthquake

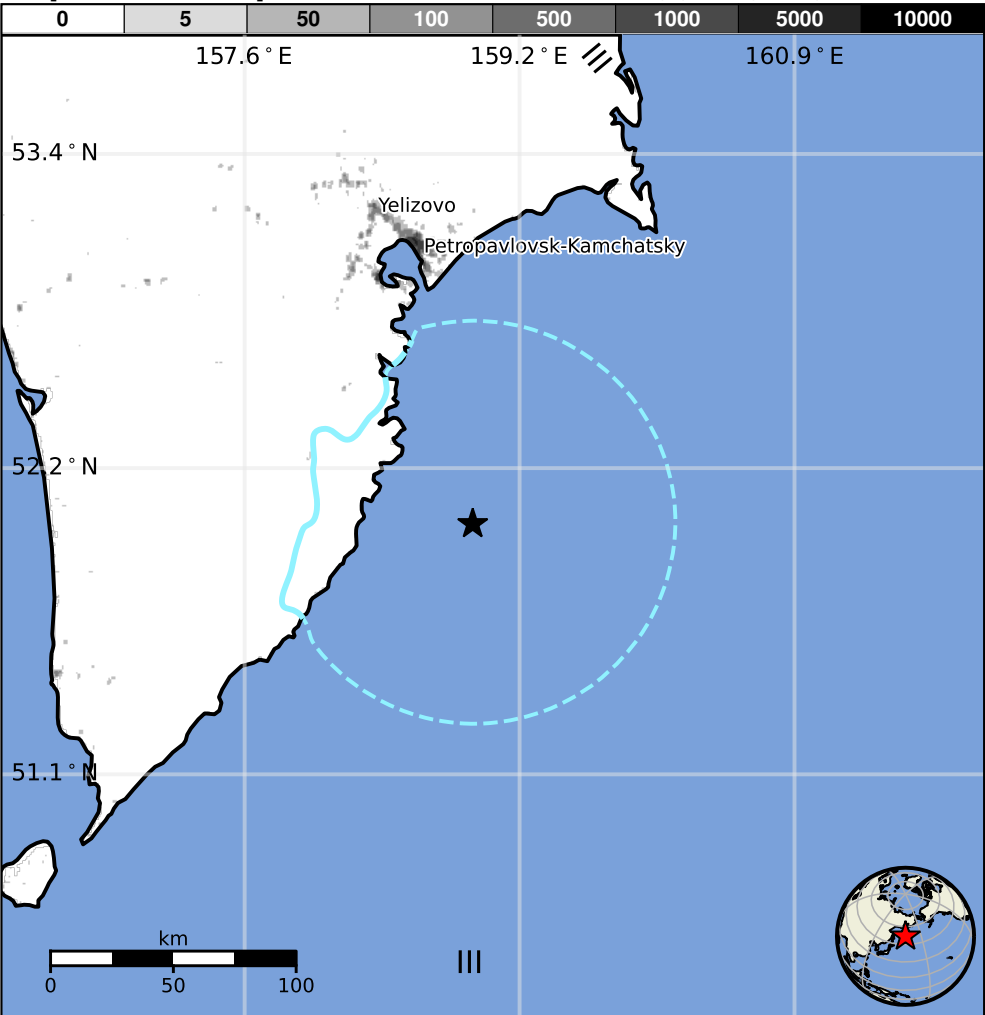


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 273k | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and unreinforced brick with mud construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1983-04-04 | 377 | 6.5 | V(1k) | — |
| 1992-03-02 | 111 | 6.8 | VII(2k) | — |
| 1993-06-08 | 126 | 7.5 | VII(4k) | — |

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|--------------------------|------------|
| III | Paratunka | 2k |
| III | Ozernovskiy | 3k |
| III | Vilyuchinsk | 25k |
| III | Yelizovo | 41k |
| III | Petropavlovsk-Kamchatsky | 187k |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ii46#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ii46